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Dated: September 22, 2006 Signature:

(Farah Bushashia)

Docket No.: 0103544.00131US2  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Harold E. Helson Confirmation No.: 4787  
Application No.: 09/502,133 Art Unit: 2128  
Filed: February 11, 2000 Examiner: H. M. Jones  
Title: ENHANCING STRUCTURE DIAGRAM GENERATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

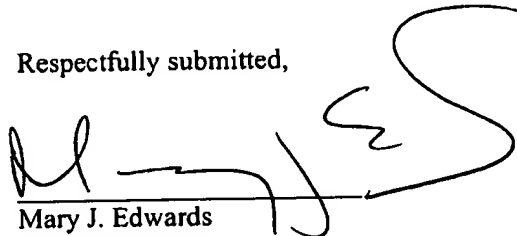
**INFORMATION DISCLOSURE STATEMENT (IDS)**

Dear Sir:

Applicants request that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Dated: September 22, 2006

Respectfully submitted,

  
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PTO/SB/08a/b (07-06)  
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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete If Known</b>		
			Application Number	09/502,133-Conf. #4787	
			Filing Date	February 11, 2000	
			First Named Inventor	Harold E. Nelson	
			Art Unit	2128	
			Examiner Name	H. M. Jones	
Sheet	1	of	3	Attorney Docket Number	0103544.00131US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA*	US-4,747,059	05-24-1988	Hirayama et al.	
	AB*	US-4,473,890	09-25-1984	Araki et al.	
	AC*	US-5,418,944	05-23-1995	DiPace et al.	
	AD*	US-5,486,995	01-23-1996	Krist et al.	
	AE*	US-5,577,239	11-19-1996	Moore et al.	
	AF*	US-5,740,425	04-14-1998	Povilus	
	AG*	US-5,778,377	07-07-1998	Marlin et al.	
	AH*	US-5,841,678	11-24-1998	Hasenberg et al.	
	AI*	US-5,851,272	12-22-1998	Vicenzi	
	AJ*	US-5,874,564	02-23-1999	Ecker et al.	
	AK*	US-5,950,192	09-07-1999	Moore et al.	
	AL*	US-5,978,848	11-02-1999	Maddalozzo, Jr. et al.	
	AM*	US-5,978,804	11-02-1999	Dietzman	
	AN*	US-6,007,691	12-28-1999	Klock Jr.	
	AO*	US-6,023,659	02-08-2000	Seijlhamer et al.	
	AP*	US-6,023,683	02-08-2000	Johnson et al.	
	AQ*	US-6,038,562	03-14-2000	Anjur et al.	
	AR*	US-6,055,516	01-07-2000	Johnson et al.	
	AS*	US-6,061,636	05-09-2000	Horibeck	
	AT*	US-6,128,619	10-03-2000	Fogarasi et al.	
	AU*	US-6,189,013	02-13-2001	Maslyn et al.	
	AV*	US-6,199,017	03-06-2001	Tomonaga et al.	
	AW*	US-6,226,620	05-01-2001	Oon et al.	
	AX*	US-6,236,989	05-22-2001	Mandyam et al.	
	AY*	US-6,240,374	05-29-2001	Cramer et al.	
	AZ*	US-6,246,410	06-12-2001	Bergeron et al.	
	AA1*	US-6,256,647	07-03-2001	Toh et al.	
	AB1*	US-6,272,472	08-07-2001	Danneels et al.	
	AC1*	US-6,295,514	09-25-2001	Agrafiotis et al.	
	AD1*	US-6,323,852	11-27-2001	Blower, Jr. et al.	
	AE1*	US-6,324,522	11-27-2001	Peterson et al.	
	AF1*	US-6,326,962	12-04-2001	Szabo	
	AG1*	US-6,341,314	01-22-2002	Doganata et al.	
	AH1*	US-6,453,064	09-17-2002	Aikawa et al.	
	AI1*	US-6,505,172	01-07-2003	Johnson et al.	
	AJ1*	US-6,571,245	05-27-2003	Huang et al.	
	AK1*	US-6,584,412	06-24-2003	Brecher	
	AL1*	US-6,618,852	09-09-2003	van Elkeren et al.	
	AM1*	US-6,631,381	10-07-2003	Couch et al.	
	AN1*	US-6,675,105	01-06-2004	Hogarth et al.	
	AO1*	US-6,721,754	04-13-2004	Hurst et al.	
	AP1*	US-6,751,615	06-15-2004	Nisler et al.	
	AQ1	US-US 2002/0049548	04-25-2002	Bunin	
	AR1	US-US 2002/0165853	11-07-2002	Gogalak	

Examiner Signature		Date Considered	12/15/06
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			Art Unit	2128	
			Examiner Name	H. M. Jones	
Sheet	2	of	3	Attorney Docket Number	0103544.00131US2

FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	MM-DD-YYYY			
	BA	WO-99/58474	11-18-1999	ISIS Pharmaceuticals		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Anonymous, "Databases Added to ChemWeb", <i>Information Today</i> , 2 pages, May, 1998	
	CB	BARNARD, J.M., "Substructure Searching Methods: Old and New", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 33, pp. 532-538, 1993	
	CC	BRECHER, "The ChemFinder WebServer: Indexing Chemical Data on the Internet", <i>CHIMIA</i> , Vol. 52, pp. 658-661, 1998	
	CD	Business Editors/Health & Medical Writers, "Janssen Selects MDL's ISIS, Relational Chemical Gateway as Informatics Foundation for High Throughput Discovery", 3 pages, 2 December 1998	
	CE	CASH, "A Simple Means of Computing the Kekule Structure Count for Toroidal Polyhex Fullerenes", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 38, No. 1, pp. 58-61, 1998	
	CF	Cambridge Scientific Computing, Inc., "Chem3D the Molecular Modeling System", pp. 1-337, 1990	
	CG	ChemDraw: Chemical Structure Drawing Standard (Publ. CambridgeSoft Corp.), pp. 68-69	
	CH	Cheminovation Software, "Chemistry 4-D Draw", <i>User's Guide</i> , pp. 1-61, 1997	
	CI	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature. 1.Introduction and Background to a Grammar-Based Approach", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 101-105, 1989	
	CJ	COOKE-FOX et al., "Computer Translation of of IUPAC Systematic Organic Chemical Nomenclature.2.Development of a Formal Grammar", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 106-112, 1989	
	CK	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature.3.Syntax Analysis and Semantic Processing", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 29, pp. 112-118, 1989	
	CL	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature.4.Concise Connection Tables to Structure Diagrams", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 30, pp. 122-127, 1990	
	CM	COOKE-FOX et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature.5.Steroid Nomenclature", <i>J. Chem. Inf. Comput. Sc.</i> , Vol. 30, pp. 128-132, 1990	
	CN	COOKE-FOX et al., "From names to diagrams - by computer", <i>Chemistry in Britain</i> , pp. 467-471/1985	
	CO	CRC Handbook of Chemistry and Physics, Student Edition, 76th Edition, Section 2, pp. 2-22 through 2-26, 1996-1996	
	CP	ERTL, P. et al., "WWW-Based Chemical Information System", <i>Journal of Molecular Structure</i>	

Examiner Signature		Date Considered	10/12/06
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		Art Unit	2128		
		Examiner Name	H. M. Jones		
Sheet	3	of	3	Attorney Docket Number	0103544.00131US2

		(Theochem), Vol. 449, p. 113-129, 8 December 1997	
CQ		GLENDENING et al., "Natural Resonance Theory: I. General Formalism", <i>Journal of Computational Chemistry</i> , Vol. 19, No. 6, pp. 593-609, 30 April 1998	
CR		GRAOVAC et al., "Kekule Index for Valence Bond Structures of Conjugated Polycyclic Systems", <i>Journal of the American Chemical Society</i> , Vol. 95, No. 19, pp. 6267-6273, 1973	
CS		IHLENFELDT, W.W. et al., "Augmenting Connectivity Information by Compound Name Parsing: Automatic Assignment of Stereochemistry and Isotope Labeling", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 35, pp. 663-674, 1995	
CT		IHLENFELDT, W.D. et al., "Beyond the Hyperactive Molecule: Search, Salvage and Visualization of Chemical Information from the Internet", <i>Pacific Symposium on Biocomputing '96</i> , Vol. SYMP. 1, pp. 384-398, 3 January 1996	
CU		Information Today, "ISI develops electronic Index Chemicus", Medford, Vol. 10, Iss. 5, p. 64, May 1993	
CV		KIRBY et al., "Computer Translation of IUPAC Systematic Organic Chemical Nomenclature. 6. (Semi) Automatic Name Correction", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 31, pp. 153-160, 1991	
CW		MORIKAWA, "Enumeration of Kekule Structures in Polyradical Polyhexes", <i>Computers Chem.</i> , Vol. 20, No. 2, pp. 159-165, 1996	
CX		MORRISON et al., "Structure and Properties", <i>Organic Chemistry, Third Edition</i> , pp. 4-8, Copyright 1973	
CY		MORRISON et al., <i>Organic Chemistry, Third Edition</i> , p. 324, Copyright 1973	
CZ		NOTESS, G.R., "Offspring of PACS: Local databases on the net", <i>Database, Weston</i> , 4 pages, June 1993	
CA1		PR Newswire: Judy Hunter, "CAS and Dialog agree to publish new standard", New York, Sec. 1, pg. 1 (2 pages total), 29 September 1994	
CB1		PR Newswire, New York, "Fisher Scientific Adopts Standards: New Electronic Commerce Web Site Among the First to Embrace Open Buying on the Internet Standards", 2 pages, 9 February 1999	
CC1		RUIZ et al., "Error Detection, Recovery, and Repair in the Translation of Inorganic Nomenclatures. 1. A Study of the Problem", <i>J. Chem. Inf. Comput. Sci.</i> , Vol. 36, No. 1, pp. 16-24, 1996	
CD1		STILLWELL, "Computer Translation of Systematic Chemical Nomenclature to Structural Formulas - Steroids", <i>Journal of Chemical Documentation</i> , Vol. 13, No. 3, pp. 107-109, 1973	
CE1		VANDER STOUW et al., "Automated Conversion of Chemical Substances Names to Atom-Bond Connection Tables", <i>Journal of Chemical Documentation</i> , Vol. 14, No. 4, pp. 185-193, 1974	
CF1		VANDER STOUW et al., "Procedures for Converting Systematic Names of Organic Compounds into Atom-Bond Connection Tables", <i>Journal of Chemical Documentation</i> , Vol. 7, No. 3, pp. 165-169, 1967	
CG1		WILDER, "Net Catalog Sales", <i>Information Week; Manhassete</i> , 2 pages, 1 February 1999	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Translation is attached.

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